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	Application No.	Applicant(s)		
Notice of Allowability	10/636,114		CHATURVEDI ET AL.	
Notice of Allowability	Examiner	Art Unit		
	Cam N Nguyen	1754		
The MAILING DATE of this communication at All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOLNOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.	IS (OR REMAINS) CLOSED in t 85) or other appropriate commun FRIGHTS. This application is su 313 and MPEP 1308.	his application. If not incluication will be mailed in dubject to withdrawal from is	uded ue course. THIS sue at the initiative	
 This communication is responsive to <u>a divisional applic</u> The allowed claim(s) is/are 9-19 (which have been renulation. 	ation of 10/165,065 (now US Pat	6,656,873). Ratel	ephone	
2. The allowed claim(s) is/are 9-19 (which have been renu	umbered 1-11).	unication on	5/10/04	
3. The drawings filed on are accepted by the Exam	iner.			
 4. Acknowledgment is made of a claim for foreign priority a) All b) Some* c) None of the: 1. Certified copies of the priority documents he. 2. Certified copies of the priority documents he. 3. Copies of the certified copies of the priority International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DAT noted below. Failure to timely comply will result in ABANDO THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be su INFORMAL PATENT APPLICATION (PTO-152) which 6. CORRECTED DRAWINGS (as "replacement sheets") (a) including changes required by the Notice of Draftsp. 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examin Paper No./Mail Date Identifying indicia such as the application number (see 37 CF each sheet. Replacement sheet(s) should be labeled as such 7. DEPOSIT OF and/or INFORMATION about the deattached Examiner's comment regarding REQUIREMENT. 	ave been received. ave been received in Application documents have been received "E" of this communication to file a NMENT of this application. Abmitted. Note the attached EXAM gives reason(s) why the oath or comust be submitted. Derson's Patent Drawing Review person's Amendment / Comment or in the header according to 37 CFR eposit of BIOLOGICAL MATER	No in this national stage application this national stage application the reply complying with the MINER'S AMENDMENT of declaration is deficient. (PTO-948) attached in the Office action of drawings in the front (not a 1.121(d)). RIAL must be submitted.	requirements r NOTICE OF	
 Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-94) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/S Paper No./Mail Date /2/29/03 4. ☐ Examiner's Comment Regarding Requirement for Depos of Biological Material 	8) 6. ⊠ Interview Sur Paper No./M B/08), 7. ⊠ Examiner's A	rmal Patent Application (F nmary (PTO-413), lail Date <u>5/10/</u> ou mendment/Comment tatement of Reasons for A	,	
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U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04) Application/Control Number: 10/636,114

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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with *Ms. Marcella M. Bodner* on *May 10, 2004*.

2. The application has been amended as follows:

In the Claims

Claim 11, line 2, a comma -- , -- has been inserted after "depositing".

Claim 11, line 2, a comma -- , -- has been inserted after "other".

Claim 12, line 2, "accomplished" has been changed to --carried out--.

Claim 13, line 2, "accomplished" has been changed to --carried out--.

Claim 14, last line, the second period "." has been deleted.

Claim 16, line 2, "done" has been changed to --carried out--.

Claim 17, line 1, --according to claim 10-- has been inserted after "nitrile".

Claim 17, line 2, "done" has been changed to --carried out--.

Reasons for Allowance

3. The following is an examiner's statement of reasons for allowance:

As concern with claims 9 & 16, the prior art does not disclose or fairly suggest a

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process for producing an unsaturated carboxylic acid using a catalyst produced by a process as recited in claim 9. While processes of producing mixed metal oxide catalyst compositions are known in the art, a process <u>requiring</u> vapor depositing at least one dopant metal onto the surface of a mixed metal oxide catalyst having the empirical formula $A_aD_bE_cX_dO_e$ satisfying a, b, c, d, and e (as specified in claim 9) distinguishes over the prior art of record.

As concern with claims 10 & 17, the prior art does not disclose or fairly suggest a process for producing an unsaturated nitrile using a catalyst produced by a process as recited in claim 10. While processes of producing mixed metal oxide catalyst compositions are known in the art, a process requiring vapor depositing at least one dopant metal onto the surface of a mixed metal oxide catalyst having the empirical formula $A_aD_bE_cX_dO_e$ satisfying a, b, c, d, and e (as specified in claim 10) distinguishes over the prior art of record.

As concern with claims 11-13, the prior art does not disclose or fairly suggest a process for preparing a catalyst <u>requiring</u> vapor depositing, one upon the other, a plurality of thin films, each thin film containing at least one of the elements A, D, E and X to form a composite of A, D, E and X.

As concern with claim 14, the prior art does not disclose or fairly suggest a process for preparing a catalyst <u>requiring</u> vapor depositing, one upon the other, a plurality of thin films, each thin film containing at least one of the elements Mo, V, Nb and X to form a composite of Mo, V, Nb and X.

As concern with claim 15, the prior art does not disclose or fairly

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suggest a process for preparing a catalyst <u>requiring</u> vapor depositing, one upon the other, a plurality of thin films, each thin film containing at least one of the elements Mo, V, Te and X^1 to form a composite of Mo, V, Nb and X^1 .

As concern with claim 18, the prior art does not disclose or fairly suggest a process for producing an unsaturated carboxylic acid using a catalyst produced by a process as recited in the claim, which <u>requires</u> vapor depositing, one upon the other, a plurality of thin films, each thin film containing at least one of the elements A, D, E and X to form a composite of A, D, E and X.

As concern with claim 19, the prior art does not disclose or fairly suggest a process for producing an unsaturated nitrile using a catalyst produced by a process as recited in the claim, which <u>requires</u> vapor depositing, one upon the other, a plurality of thin films, each thin film containing at least one of the elements A, D, E and X to form a composite of A, D, E and X.

There is no motivation to combine the teachings of the references together.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Citations

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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Chaturvedi et al. (US Pat. 6,624,111 B2), Chaturvedi et al. (US Pat. 6,504,053 B1), Bogan, Jr. et al. (US Pat. 6,710,207 B2), Bogan, Jr. (US Pat. 6,472,552 B1), Karim et al. (US Pat. 6,531,631 B1), Karim et al. (US Pat. 6,258,992 B1), Karim et al. (US Pat. 6,143,921), Tu et al. (US Pat. 6,512,141 B2), Jachow et al. (US Pat. 6,541,664 B1), Kayou et al. (US Pat. 6,166,241), Lin et al. (US Pat. 6,180,825 B1), Yamamatsu et al. (US Pat. 5,191,116), Kitson (US Pat. 5,210,293), & Neumann et al. (US Pat. 5,449,821) are cited for related art.

Conclusion

- 5. Claims 9-19 are originally pending in the application. Claims 9-19 are allowed.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Cam Nguyen, whose telephone number is (571) 272-1357. The examiner can normally be reached on M-F from 8:30 am. to 6:00 pm, with alternative Monday off.

The appropriate fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to telephone number (571) 272-1700.

Cam Nguyen

Nguyen/cnn Chr)

Primary Examiner

May 10, 2004

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